

SECRET

DECLASS REVIEW by NGA

NPIC/TSG/RED/SRB-091-70  
7 December 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Closed Circuit TV System at Headquarters

25X1 1. On 3 December 1970 I visited Headquarters to see their closed circuit TV system that is used to transmit briefings and other pictorial information to any of six remote consoles. The console is manufactured by [ ] presents 925 TV lines and is considerably better than commercial home TV sets. However, the positioning of the consoles used in conference rooms is such that the overhead lighting reflects off the CRT face and the transmitted image is difficult to see.

25X1 2. I discussed this problem with [ ] and offered several possible solutions as outlined below with some comments.

2.1 Reduce or eliminate the overhead lights. This will solve the reflection problem but will cause the inconvenience to observers of not being able to write or read notes during the briefing.

2.2 Increase the lighting on the subject matter. Presently, only normal room lighting is incident on the subject matter. Increased lighting may improve the contrast of the CRT image.

2.3 Place a hood over the CRT. The position of the consoles in the conference rooms is such that a hood might block out some but not all reflections.

2.4 Use a filter on the CRT face. A filter to block out ambient light reflections might be tried. The console presently has a tinted cover about 2 inches in front of the CRT face. It is not clear whether this cover is intended to act as a light or radiation filter or an implosion protection. I brought some filters to try out but did not remove the existing cover and did not give them an adequate test. These filters have the disadvantage of reducing the cone angle within which the CRT can be viewed.

25X1 2.5 Use a high contrast CRT phosphor. A CRT is being developed by [ ] that produces a high contrast image even under extremely high ambient light conditions. However, the size of the newly developed CRT is presently limited and this would certainly not be a quick solution.

SECRET



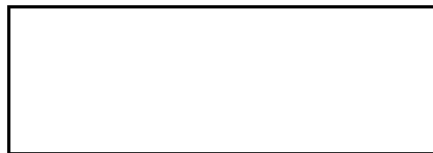
SECRET

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25X1 2.6 Use collimators over existing ambient lights. Under the  
25X1 [redacted] Human Factors work, some light collimators were developed to  
reduce the reflection of overhead lights from desk and light table  
tops. I am going to give [redacted] the name of the manufacturers  
[redacted] and one or two samples. I feel  
that this solution is relatively inexpensive and can be implemented  
rapidly.

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Systems Research Branch, RED

Distribution:

- Original - Route & File
- 1 - RED/ATB
- 1 - Project Officer
- 1 - SRB Chrono

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TRANSMITTAL SLIP		DATE <u>12/11</u> <sup>M</sup>
TO: <u>Director NA/C</u> <u>JTH</u>		
ROOM NO.	BUILDING	PNS <u>AC</u>
REMARKS: <u>Act - per your request</u> <u>we asked</u> <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span> <u>of RFO to contact Mr.</u> <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span> <u>regarding the CCTV</u> <u>used by the DD/I. This</u> <u>is</u> <span style="border: 1px solid black; display: inline-block; width: 50px; height: 1.2em; vertical-align: middle;"></span> <u>report -</u>		
FROM: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span>		
ROOM NO.	BUILDING	EXTENSION

FORM NO. 241 1 FEB 55 REPLACES FORM 36-8 WHICH MAY BE USED. (47)

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SENDER WILL CHECK CLASSIFICATION TOP AND BOTTOM			
UNCLASSIFIED	CONFIDENTIAL		
OFFICIAL ROUTING SLIP			
TO	NAME AND ADDRESS	DATE	INITIALS
1	Ch/RED	9 Dec	Uel
2	C/TSG	12/11	Jwe
3			
4			
5			
6			
ACTION		DIRECT REPLY	PREPARE REPLY
APPROVAL		DISPATCH	RECOMMENDATION
COMMENT		FILE	RETURN
CONCURRENCE		INFORMATION	SIGNATURE
Remarks:			
<p>To 2</p> <p>Sohn -</p> <p>This is [ ] report on his meeting with PDI personnel in response to Art Randall's request for us to provide them with some consultation -</p> <p>Uel</p>			
FOLD HERE TO RETURN TO SENDER			
FROM: NAME, ADDRESS AND PHONE NO.			DATE
[ ]			7 Dec 70